



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/608,410

06/30/2003

Amanda Giang-Tien Nguyen

MFCP.103203

8066

45809

7590

08/06/2008

SHOOK, HARDY & BACON L.L.P.
(c/o MICROSOFT CORPORATION)
INTELLECTUAL PROPERTY DEPARTMENT
2555 GRAND BOULEVARD
KANSAS CITY, MO 64108-2613

EXAMINER

LETT, THOMAS J

ART UNIT

PAPER NUMBER

2625

MAIL DATE

DELIVERY MODE

08/06/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/608,410	Applicant(s) NGUYEN ET AL.	
	Examiner THOMAS J. LETT	Art Unit 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 April 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 June 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 30 April 2008 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-33 are rejected under 35 U.S.C. 102(e) as being anticipated by Kemp et al (US Pub. 20030200291 A1).

Regarding claim 1, Kemp et al disclose a system for automatic configuration upon installation of a network printer, wherein the network printer is associated with printer description files, a driver, a spooler, and a port monitor, the system comprising:

bi-directional application program interfaces (dynamic device installer (DDI) application program 701 using bidirectional queries and responses (e.g., 601-604),

Art Unit: 2625

page 4, para. 0034) associated with the spooler (para. 0035) for allowing the driver (DDI 701 is considered a driver since it) to generate a request and a response, the bi-directional application program interfaces configured to seek a list of one or more installable features (printer parameters and driver files, see figure 7) upon installation of the network printer (using option 501);

a syntax within the printer description files for representing and associating the request and the response with a print feature, the syntax including one or more extensions to the printer description files (bi-directional request-response dialogue of 601-604, paras. 0034-0036 and figure 7);

extension files (printer configuration files 414 provided to DDI 701, para. 0034) stored in the driver (DDI 701) for relating bi-directional values and printer values, the bi-directional values configured to enable a client to generate a request and interpret a response (para. 0034);

a notification infrastructure (DDI 701) controlled by the port monitor for providing a bi-directional notification of configuration changes to the driver and selected applications (para. 0035); and

a computer storage medium (dynamic device installer (DDI) application program 701 using bidirectional queries and responses (e.g., 601-604), page 4, para. 0034) for storing information related to automatic configuration upon installation of a network printer, wherein the bi-directional application program interfaces are configured to perform an auto-configuration of the system upon installation of the network printer, the auto-configuration including configuration of the one or more installable features.

Regarding claim 2, Kemp et al disclose a system of claim 1, wherein the notification infrastructure includes a drive printer event mechanism for informing the driver of a configuration change (all changes are dynamically logged on the web interface/browser that is invoked when using DDI 701).

Regarding claim 3, Kemp et al disclose a system of claim 1, wherein the notification infrastructure includes a find next printer change notification for allowing an application to monitor and receive configuration changes automatically (all changes are dynamically logged on the web interface/browser that is invoked when using DDI 701).

Regarding claim 4, Kemp et al disclose a system of claim 1, wherein the syntax (bi-directional request-response dialogue of 601-604, paras. 0034-0036 and figure 7) additionally comprises a plurality of keywords including a response type keyword (inherent in the dialogue) for designating a bi-directional response type and a response data keyword (inherent in the dialogue) for mapping between features of the network printer.

Regarding claim 5, Kemp et al disclose a system of claim 1, wherein the syntax provides tools for providing updates at a global level, at an option level, and at a feature level (Examiner reads Kemp as installing configuration files. The terms feature and option are synonyms and the term global can encompass both. Kemp meets the claim limitation).

Regarding claim 6, Kemp et al disclose a system of claim 1, further comprising independent hardware vendor extensions for enumerating specific features provided by

Art Unit: 2625

a manufacturer (printer configuration files 414 provided to DDI 701 are inherently provided by a vendor/manufacturer).

Regarding claim 7, Kemp et al disclose a system of claim 1, wherein the bi-directional application program interfaces provide tools for supporting a get action, a set action, and an enumerate action (It is inherent that the system of Kemp gets files, configures files and specifies files).

Regarding claim 8, Kemp et al disclose a system of claim 1, wherein port monitor includes a mechanism for retrieving data from a network printer database and for accessing the extension files to transform the data (para. 0035 and see fig. 1 wherein files are retrieved from database 51 and fig. 7).

Regarding claim 9, Kemp et al disclose a system of claim 8, wherein the bi-directional application program interfaces provide a mechanism for returning the data retrieved by the port monitor (para. 0035 and see fig. 1 wherein files are retrieved from database 51 and fig. 7).

Regarding claim 10, Kemp et al disclose a system for facilitating client retrieval of bi-directional information upon installation of a network device, the system comprising:

a set of bi-directional constructs within a printer description file (dynamic device installer (DDI) application program 701 using bidirectional queries and responses (e.g., 601-604), page 4, para. 0034), the bi-directional constructs configured to seek a list of one or more installable features (printer parameters and driver files, see figure 7) upon installation of the network device;

a port monitor for receiving the bi-directional constructs, for retrieving data from the network device in accordance with the bi-directional constructs, transforming the data into an appropriate format, creating a channel, and sending the transformed data (para. 0035);

a spooler including a mechanism for receiving installation notifications over the created channel from the port monitor and routing the installation notifications to selected applications (para. 0035); and

a computer storage medium for storing information related to automatic configuration upon installation of a network printer (dynamic device installer (DDI) application program 701 using bidirectional queries and responses (e.g., 601-604), page 4, para. 0034), wherein the bi-directional constructs are configured to perform an auto-configuration of the system upon installation of the network printer, the auto-configuration including configuration of the one or more installable features, and wherein the auto-configuration provides for automatically updating the system upon installation of the network printer without user intervention (the installer in the workstation, utilizing the extracted parameters, automatically obtains printer configuration information and print driver information, automatically configures the printer and installs the print driver on the workstation, para. 0005).

Regarding claim 11, Kemp et al disclose a system of claim 10, wherein spooler comprises a drive printer event mechanism for informing a driver of a configuration change (all changes are dynamically logged on the web interface/browser that is invoked when using DDI 701).

Regarding claim 12, Kemp et al disclose a system of claim 10, wherein the spooler comprises a find next printer change notification for allowing an application to monitor and receive configuration changes automatically (all changes are dynamically logged on the web interface/browser that is invoked when using DDI 701).

Regarding claim 13, Kemp et al disclose a system of claim 10, wherein the set of bi-directional constructs includes a bi-directional query construct and a bi-directional response construct (bi-directional request-response dialogue of 601-604, paras. 0034-0036 and figure 7).

Regarding claim 14, Kemp et al disclose a system of claim 13, wherein the printer description file comprises a plurality of keywords including a response type keyword for designating a bi-directional response type and a response data keyword for mapping between features of the network printer (inherent in the dialogue 601-604).

Regarding claim 15, Kemp et al disclose a system of claim 14, wherein the bi-directional constructs and the keywords form a syntax providing tools for making automatic updates at a global level, at an option level, and at a feature level (Examiner reads Kemp as installing configuration files. The terms feature and option are synonyms and the term global can encompass both. Kemp meets the claim limitation).

Regarding claim 16, Kemp et al disclose a system of claim 10, further comprising independent hardware vendor extensions for enumerating specific features provided by a manufacturer (printer configuration files 414 provided to DDI 701 are inherently provided by a vendor/manufacturer).

Regarding claim 17, Kemp et al disclose a system of claim 10, further comprising bi-directional application program interfaces within the spooler for allowing transmittal of a bi-directional request and a bi-directional response (bi-directional request-response dialogue of 601-604, paras. 0034-0036 and figure 7).

Regarding claim 18, Kemp et al disclose a system of claim 17, wherein the bi-directional application program interfaces provide tools for supporting a get action, a set action, and an enumerate action (It is inherent that the system of Kemp gets files, configures files and specifies files).

Regarding claim 19, Kemp et al disclose a system of claim 10, wherein the port monitor includes a mechanism for retrieving data from a network printer database and for accessing extension files within a driver to transform the received data (para. 0035 and see fig. 1 wherein files are retrieved from database 51 and fig. 7).

Regarding claim 20, Kemp et al disclose a system of claim 19, wherein the bi-directional application program interfaces provide a mechanism for returning the data retrieved by the port monitor (para. 0035 and see fig. 1 wherein files are retrieved from database 51 and fig. 7).

Regarding claim 21, Kemp et al disclose a method for automatically configuring a system upon installation of a network printer within the system, wherein the system includes printer description files, a driver, a spooler, and a port monitor, the method comprising:

getting, upon installation of the network printer, a list of installable features and corresponding bi-directional requests from the printer description files (printer parameters and driver files, see figure 7);

calling bi-directional application program interfaces from the spooler to query for a current configuration of the installable features (dynamic device installer (DDI) application program 701 using bidirectional queries and responses (e.g., 601-604), page 4, para. 0034);

mapping bi-directional schema to a printer-specific protocol (para. 0027);

generating and routing a bi-directional notification (bidirectional queries and responses (e.g., 601-604), page 4, para. 0034);

mapping bi-directional responses to a feature from the printer description file; and updating an application with a current configuration, wherein updating the application with the current configuration includes performing an auto-configuration of the system upon installation of the network printer, the auto-configuration including configuration of the installable features (dynamic device installer (DDI) application program 701 using bidirectional queries and responses (e.g., 601-604), page 4, para. 0034).

Regarding claim 22, Kemp et al disclose a method of claim 21, wherein routing a bi-directional notification comprises routing a drive printer event notification to the driver to inform the driver of a configuration change (all changes are dynamically logged on the web interface/browser that is invoked when using DDI 701).

Regarding claim 23, Kemp et al disclose a method of claim 21, wherein routing a bi-directional notification comprises routing a find next printer change notification to an

Art Unit: 2625

application to allow the application to monitor and receive configuration changes automatically (para. 0035).

Regarding claim 24, Kemp et al disclose a method of claim 21, further comprising implementing a plurality of keywords including a response type keyword for designating a bi-directional response type and a response data keyword for mapping between features of the network printer (inherent in the dialogue 601-604).

Regarding claim 25, Kemp et al disclose a method of claim 21, further comprising providing automatic configuration updates at a global level, at an option level, and at a feature level (Examiner reads Kemp as installing configuration files. The terms feature and option are synonyms and the term global can encompass both. Kemp meets the claim limitation).

Regarding claim 26, Kemp et al disclose a method of claim 21, further comprising implementing independent hardware vendor extensions for enumerating specific features provided by a manufacturer (printer configuration files 414 provided to DDI 701 are inherently provided by a vendor/manufacturer).

Regarding claim 27, Kemp et al disclose a method of claim 21, further comprising implementing the bi-directional application program interfaces to provide tools for supporting a get action, a set action, and an enumerate action (It is inherent that the system of Kemp gets files, configures files and specifies files).

Regarding claim 28, Kemp et al disclose a method of claim 21, further comprising using the port monitor for retrieving data from a network printer database and accessing

extension files from the printer description files in order to transform the data (para. 0035 and see fig. 1 wherein files are retrieved from database 51 and fig. 7).

Regarding claim 29, Kemp et al disclose a method of claim 28, further comprising using the bi-directional application program interfaces for returning the data retrieved by the port monitor (para. 0035 and see fig. 1 wherein files are retrieved from database 51 and fig. 7).

Regarding claim 30, Kemp et al disclose a computer-readable medium having computer-executable instructions for performing the method recited in claim 21 (dynamic device installer (DDI) application program 701).

Regarding claim 31, Kemp et al disclose a method for providing extensibility for a port monitor in order to enable vendors to define new mappings using existing public bi-directional schema and extensions to existing schema (dynamic device installer (DDI) application program 701 using bidirectional queries and responses (e.g., 601-604), page 4, para. 0034), the method comprising:

permitting, upon installation of a network printer, the use of an extension file capable of describing a mapping between bi-directional values and device-specific objects, the extension file configured to seek a current configuration of the network printer (printer parameters and driver files, see figure 7); and

allowing implementation of the extension file to facilitate a port monitor response to a bi-directional request, wherein the extension file is configured to provide for auto-configuration of a system, the auto-configuration including configuration of the system to recognize the device-specific objects and current configuration of the network printer

Art Unit: 2625

(the installer in the workstation, utilizing the extracted parameters, automatically obtains printer configuration information and print driver information, automatically configures the printer and installs the print driver on the workstation, para. 0005).

Regarding claim 32, Kemp et al disclose a method of claim 31, wherein the extension file is an XML extension file (Kemp teaches that the creation of a printer is web-based and the use of available XML extension files is within the scope of Kemp).

Regarding claim 33, Kemp et al disclose a method of claim 31, wherein the extension file comprises independent hardware vendor extensions of standard bi-directional schema (printer parameters and driver files, see figure 7 inherently provided by a vendor/manufacturer).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to THOMAS J. LETT whose telephone number is (571)272-7464. The examiner can normally be reached on 8-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L. Coles can be reached on (571) 272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2625

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thomas J. Lett/
Examiner, Art Unit 2625
/Edward L. Coles/
Supervisory Patent Examiner, Art Unit 2625